

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/621,505	07/17/2003	Toshiaki Yoshihara	1100.68143	1976	
7590 12/01/2004			EXAMINER		
Patrick G. But		DUONG, THOI V			
GREER, BURN Suite 2500	IS & CRAIN, LTD.	ART UNIT	PAPER NUMBER		
300 South Wac		2871			
Chicago, IL 60606			DATE MAILED: 12/01/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

				1 - 17 - 17 - 17 - 17 - 17 - 17 - 17 -				
		Applicati	Application No.		Applicant(s)			
		10/621,5	05	YOSHIHARA ET AL.				
	Office Action Summary	Examine		Art Unit				
		Thoi V Du		2871				
Period fo	The MAILING DATE of this communic or Reply	ation appears on th	e cover sheet with the d	correspondence ad	dress			
A SHO THE I - Exter after - If the - If NO - Failui Any r	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIC asions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communication for reply specified above is less than thirty (30) period for reply is specified above, the maximum stature to reply within the set or extended period for reply we ply received by the Office later than three months after a patent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no evolution. days, a reply within the startory period will apply and will, by statute, cause the approximation.	ent, however, may a reply be tir tutory minimum of thirty (30) day rill expire SIX (6) MONTHS from Dication to become ABANDONE	mely filed ys will be considered timel the mailing date of this of ED (35 U.S.C. § 133).				
Status	•							
1) ズ	Responsive to communication(s) filed	on 17 July 2003						
	on the second							
, 	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
5) 6) 7)	Claim(s) 1-15 is/are pending in the ap 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) 1-15 are subject to restriction	withdrawn from co						
Applicati	on Papers							
	The specification is objected to by the							
10) 🔲	0)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any object		•	• •				
11)	Replacement drawing sheet(s) including the oath or declaration is objected to	•		-				
Priority u	ınder 35 U.S.C. § 119							
a)[Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority d 2. Certified copies of the priority d 3. Copies of the certified copies of application from the Internation see the attached detailed Office action	ocuments have been ocuments have been the priority documents al Bureau (PCT Ru	en received. en received in Applicat ents have been receiv le 17.2(a)).	ion No ed in this National	Stage .			
Attachmen	t(s)							
	e of References Cited (PTO-892)		4) Interview Summary					
3) Inform	e of Draftsperson's Patent Drawing Review (PT nation Disclosure Statement(s) (PTO-1449 or P r No(s)/Mail Date		Paper No(s)/Mail D 5) Notice of Informal F 6) Other:		O-152)			

DETAILED ACTION

Election/Restrictions

1. This application contains claims directed to the following patentably distinct species of the claimed invention:

Species I: claims 8 and 9 drawn to a manufacturing method of a liquid crystal display device comprising performing an alignment treatment to bring the liquid crystal into the monostable state by cooling said liquid crystal at a cooling rate of not more than 3 degrees C/minute after heating said liquid crystal.

Species II: claims 10 and 11 drawn to a manufacturing method of a liquid crystal display device comprising performing an alignment treatment to bring the liquid crystal into the monostable state by applying a DC voltage of not lower than 3V between the electrodes after heating said liquid crystal.

Species III: claims 12 and 13 drawn to a manufacturing method of a liquid crystal display device comprising performing an alignment treatment to bring the liquid crystal into the monostable state by causing a cooling rate when a DC voltage is applied between the electrodes to be lower than a cooling rate when no voltage is applied, after heating said liquid crystal.

Species IV: claims 14 and 15 drawn to a manufacturing method of a liquid crystal display device comprising performing an alignment treatment to bring the liquid crystal into the monostable state by providing a period in which the temperature of the

Application/Control Number: 10/621,505

Art Unit: 2871

liquid crystal during cooling is kept within a temperature range showing either one of the cholesteristic phase and the chiral nematic phase, after heating said liquid crystal.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1-7 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Application/Control Number: 10/621,505

Art Unit: 2871

2. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be

traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one

or more of the currently named inventors is no longer an inventor of at least one claim

remaining in the application. Any amendment of inventorship must be accompanied by

a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Thoi V. Duong whose telephone number is (571) 272-

2292. The examiner can normally be reached on Monday-Friday from 8:30 am to 4:30

pm.

3.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Robert Kim, can be reached at (571) 272-2293.

Thoi Duong

11/29/2004

Page 4